



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,269	07/26/2006	Heike Becker	294001US0PCT	8383
22850 7590 11/01/2007 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER NGUYEN, THUY-AI N	
			ART UNIT 4134	PAPER NUMBER
			NOTIFICATION DATE 11/01/2007	DELIVERY MODE ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com  
oblonpat@oblon.com  
jgardner@oblon.com

## Office Action Summary

Application No.

10/587,269

Applicant(s)

BECKER ET AL.

Examiner

Thuyai N. Nguyen

Art Unit

4134

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 26 July 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 10/262006.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

*The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:*

*A person shall be entitled to a patent unless –*

*(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.*

*Claims 1- 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Littig et al. (US. 6,573,228).*

*Regarding claim 1, Littig et al. teach a composition comprising polyalkyleneamines (PA unit, (col. 3: 30- col. 4: 55), which is grafted with ethyleneimine (col. 5: 13- 65), wherein polyalkyleneamines crosslink with carboxylic acids including maleic acid (col. 6: 5- 46), and further crosslink with epihalohydrin (col. 6: 47- 67). Littig et al. further teach the composition further comprising surfactants (col. 10: 52- col. 13: 52), water soluble organic solvent such as polyethylene glycol (PEG, col. 17: 22- 28), polyols (col. 6: 58- 67), alkanolamine (alkanolammonium salt, col. 14: 15- 27), carboxylic acid (col. 16: 27- 54), builder, additives (col. 13: 55- col. 15: 57), and water (col. 18: 5-10).*

*Regarding claim 2, Littig et al. teach the composition, wherein:*

*a) the fabric enhancement system (or component A) is present in an amount of from 0.01 to 20 percent (col. 2: 33- 46),*

Art Unit: 4134

*b) surfactants (or component B) is from 0.01 to 60 percent by weight of the composition (col. 10: 53- 65),*

*c) ethanol, propanediol (or component C) is present in an amount of from 3.36 percent by weight of the composition (col. 19, table 1),*

*d) and f) alkanolammonium salts (component D) and builder (component F) are present in amount of from 1 to 50 percent by weight of the composition (col. 14: 5- 14),*

*e) carboxylic acid (or component E, col. 16: 27- 54),*

*g) additives (col. 13: 55- 64), and*

*h) water (col. 18: 10- 11).*

*Regarding claim 3, Littig et al. teach the composition, wherein component Aa is a polyalkyleneamine (col. 3: 38- 65).*

*Regarding claim 4, Littig et al. teach the composition, wherein the component Ab is epihalohydrins (col. 6: 48- 67).*

*Regarding claim 5, Littig et al teach the composition, wherein component Ab is maleic acid (col. 6: 5- 46).*

*Regarding claim 6, Littig et al. teach the composition, wherein component B is fatty alcohol sulfate, alkyl ether sulfates, and fatty alcohol alkoxyates (col. 11: 1- col. 12: 66).*

*Regarding claim 7, Littig et al. teach the composition, wherein the component C is ethanol, propanediol (table 1, col. 19).*

*Regarding claim 8, Littig et al. teach the composition comprising monoethanolamine (table 1, col. 19), and component E including acetic acid (col. 9: 45- 55).*

Art Unit: 4134

*Claims 9- 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Littig et al. (US. 6,573,228).*

*Regarding claims 9- 10, Littig et al. teach the process for preparation of water soluble or water dispersible compound comprising the step of*

*i) grafting polyamine compound (or crosslink, col. 1: 45- 58, col. 3: 30- 60) with ethyleneimine (col. 1: 45- 65, col. 5: 13- 40), with epichlorohydrin (col. 6: 47- 65),*

*ii) reacting with unsaturated carboxylic acid including maleic acid (col. 6: 5- 35).*

*Claim 12 is rejected under 35 U.S.C. 102(b) as being anticipated by Boeckh et al. (US. 2003/0195135).*

*Regarding claim 12, Boeckh et al. teach a process for treatment of hard surface comprising step of applying the composition onto the surface [0112], wherein the water soluble compound polyethyleneimine in the composition crosslinks with epichlorohydrin or bischlorohydrin ether (halogenhydrin), and carboxylic acids including maleic acid [0069-0070].*

### ***Claim Rejections - 35 USC § 103***

*The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:*

*(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.*

Art Unit: 4134

*Claims 11 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Littig et al. (US. 6,573,228) as applied to claim 1 above, and further in view of Boeckh et al. (US. 2003/0195135).*

*Regarding claims 11 and 13, Littig et al. teach a detergent composition and the method of using it on fabric. Littig et al. do not teach using the composition on a hard surface. Boeckh et al. teach the method of using a composition on a hard surface including glass [0104], which comprises step of applying the composition on the surface [0112], wherein the cleaning composition comprising a crosslink polyamidoamines which is grafted with ethyleneimine and carboxylic acid [0069]. Littig et al. and Boeckh et al. are analogous art because they are in the same field of endeavor, namely, a cleaning composition. At the time of the invention, it would have been obvious to one of ordinary skill in the art to use the teaching of Boeckh et al. in the teaching of Littig et al.. in order to bring out variety benefit of the composition.*

#### ***Correspondence***

*Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuyai N. Nguyen whose telephone number is 571-270-3294. The examiner can normally be reached on Monday-Friday: 8:30 a.m. - 5:00 p.m. eastern time.*

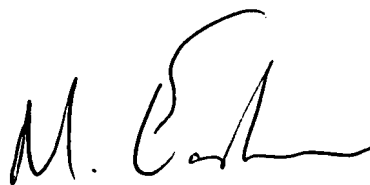
*If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on 571-272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.*

Art Unit: 4134

*Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.*

October 16, 2007

Patent Examiner  
Thuy- Ai N. Nguyen



MARK EASHOO, PH.D.  
SUPERVISORY PATENT EXAMINER

28/ Oct/07